

## ABSTRACT

An X-ray detector comprising scintillation layer (38) separated by a partition (39) for each pixel and a photodiode (13) for converting fluorescent light, which is converted by the scintillation layer (38), into signal charge, wherein when an average particle diameter of phosphor particles forming the scintillation layer (38) is  $D_s$  and an average particle diameter of particles forming the partition (39) is  $D_w$ ,  $D_s > D_w$  is satisfied.